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U. S. DEPARTMENT OF AGRICULTURE
RURAL ELECTRIFICATION ADMINISTRATION
TECHNICAL STANDARDS DIVISION

BIBLIOGRAPHY
of
Papers Presented before Engineering Bodies
Technical Publications
Technical Standards Bulletins
Patents Awarded
Patents Pending

by
Members of the Staff Since 1939

May 1946

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PAPERS PRESENTEDA. BEFORE ENGINEERING ASSEMBLIES

Nov. 13, 1939	M. M. Samuels	Electric Power for National Defense	Raleigh Engineers Club Raleigh, N.C.
Nov. 13, 1939	M. M. Samuels	On the Threshold of a New Rural Electrification Engineering	Faculty and Student Body of State College of Agriculture and Engineering, University of North Carolina
April 12, 1940	M. M. Samuels	Electric Power for National Defense	Florida Engineering Society, Hollywood, Florida
April 19, 1940	M. M. Samuels	The Dawn of Rural Electrification Engineering	College of Engineering, University of Florida, Gainesville, Florida
Dec. 5, 1940	M. M. Samuels	New Ideas in Rural Electrification Engineer- ing (Published in "Agricultural Engineering" March 1941)	American Society of Agricultural Engineers Convention, Chicago, Ill.
Jan. 28, 1941	W.T.Smith, REA K.J.Plucknett, REA T.A.Taylor, AT&T Company	Inductive Co-ordination of REA Distribution Systems and Telephone Systems (Published in "Electrical Engineering" Transactions Section, June 1941)	AIEE Convention Philadelphia, Pa.
Oct. 24, 1941	M. M. Samuels	The Development of the Young Engineer	Student Conference of AIEE, University of Maryland, College Park, Maryland
Dec. 3, 1941	M. M. Samuels	New Engineering and a New Industry (Published in "Electrical Engineering," October 1942)	ASAE Chicago, Illinois
Jan. 28, 1942	M. M. Samuels	Discussion on Distribu- tion Systems in War Time (Published in "Trans- actions, AIEE" 1942)	AIEE Convention New York, N. Y.

I. PAPERS PRESENTED

A. BEFORE ENGINEERING ASSEMBLIES)

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ay 4, 1942	F. B. Scott	A Million Meters on REA Rural Lines (Published in "Electrical South," August 1942 - "Electrical World," October 3, 1942)	Southeastern Metermen's Conference, University of Florida
ay 11, 1942	M. M. Samuels	Developments by REA Engineers (Published in "Midwest Municipal Utilities," June 1942)	Midwest Municipal Utilities Conventions, St. Louis, Missouri
une 29, 1942	E. C. Meyer	Essentials of a Farm Type Frozen Food Cabinet (Published in "Agricultural Engineering," March 1943)	ASAE Milwaukee, Wisconsin
an. 25, 1943	M. M. Samuels	Rural Electrification Engineering and Electro-Agricultural Engineering (Published in "Electrical Engineering," April 1943)	AIEE Convention New York, N. Y.
pril 1943	S. Lubin	Elimination of Radio Interference from Rural Power Lines	Institute of Radio Engineers St. Louis, Missouri
une 22, 1943	J. P. Schaenzer	Electro-Agricultural Equipment for War and Peace (Published in "Agricultural Engineering," November 1943)	ASAE Conventions Purdue University
une 23, 1943	Lee M. Moore (Bruce O. Watkins, Represented by Max Rothpletz)	Experience with Oil Circuit Reclosers on REA Systems (Published in "Electrical Engineering," August 1943)	AIEE Convention Cleveland, Ohio
arch 14, 1944	J. P. Schaenzer	New Developments in Electric Farm and Home Equipment	Wisconsin Rural Electrification Short Course University of Wisconsin Madison, Wisconsin
pt. 26, 1944	M. M. Samuels	Coordination of Engineering Experience and Exchange of Engineering Ideas	The 1944 Annual Conference of Municipal Electric Utilities Association of New York State, DeWitt Clinton Hotel Albany, New York

(I. PAPERS PRESENTED
A. BEFORE ENGINEERING ASSEMBLIES)

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Oct. 24, 1944	J. P. Schaenzer	New Electric Equipment for the Farm	Rural Electrification Conference, Michigan State College East Lansing, Michigan
Jan. 9, 1945	J. P. Schaenzer	Electric Equipment Needs for the Farm and Home	Rural Electrification Conference, Purdue University, Lafayette, Ind.
June 5, 1945	J. P. Schaenzer	Engineering Farm Refrigeration (Published in "Agricul- tural Engineering," August 1945)	Chicago Section, ASAE Chicago, Illinois
June 9, 1945	M. M. Samuels	Of Things to Come in Rural Electrification and Electro-Agriculture	Annual Meeting of Doug- las County Cooperative Light and Power Associa- tion, Alexandria, Minnesota
Dec. 19, 1945	J. P. Schaenzer	House Uses for Electric Service (To Appear in May 1946 issue of "Agricultural Engineering")	St. Louis Section, AIEE St. Louis, Missouri
March 28, 1946	J. P. Schaenzer	Farm Freezers, Selection Choice and Size	Rural Electrification Short Course, Universit- of Wisconsin, Madison, Wisconsin

B. OTHER PAPERS

Oct. 9, 1942	M. M. Samuels	The Post-War Technical Picture of Rural Electrification	21st Conference of Sys- tem Superintendents and Managers, St. Louis, Mo.
1943	M. M. Samuels	"Power Unleashed"	Book, Published by Dorset House Inc., New York, N. Y.
Revised Jan. 1945	J. P. Schaenzer	Applications of Electricity for the Home and Farm	
Nov. 1945	M. M. Samuels	Uses and Sources of Electric Power	Chapter in "Planning the Future City" Annals of the American Academy of Political and Social Sciences

II.

OTHER TECHNICAL PUBLICATIONS

March 1939	M. M. Samuels	Fire or Water?	Electric Light and Power
Nov. 1939	M. M. Samuels	Bottlenecks in Power Systems	Electric Light and Power
April 1940	J. F. Atkinson Harold W. Kelley	Portable Receiver Aids in Locating Radio Interference	Electric Light and Power
Nov. 16, 1940	D. E. Basler	Load Conditions on REA Lines	Electrical World
Feb. 22, 1941	D. E. Basler J. F. Atkinson	Carrier Indicator Reports Rural Outages	Electrical World
Sept. 20, 1941	B. O. Watkins	Design Voltage Regulation on REA Rural Circuits	Electrical World
Oct. 4, 1941	S. Lubin	Wire and Transformer Size to Prevent Motor-Start Flicker	Electrical World
Dec. 13, 1941	B. O. Watkins	Transformer Protection Timed for Secondary Faults	Electrical World
May 1942	J. R. Oberholtzer	Planned Sectionalizing Improves REA-Type Systems	Electric Light and Power
Oct. 1942	F. B. Scott	Meter Test Kit Designed for REA Systems	Electric Light and Power
Dec. 1942	M. M. Samuels	Electricity Puts Its Hand to the Plow	The New Pencil Points
June 1943	M. M. Samuels	Analysis of Plant Factors	Public Power
From April 17, 1943 to August 7, 1943	S. Lubin	Series Capacitors. Where Placed? How Big? (Series of 9 Articles)	Electrical World
Aug. 21, 1943	H. S. Williams M.W. Rothpletz	Right Locations for Step Regulators	Electrical World
Oct. 30, 1943	M. M. Samuels	Electro-Agricultural Definitions Needed	Electrical World
Oct. 30, 1943	M. M. Samuels	Letter to the Editor Independent Criticism of Engineering Design	Electrical World

(II. OTHER TECHNICAL PUBLICATIONS)

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December 1943	N. W. Matthews	Induction Voltage Regulator	Public Power
Feb. 5, Feb. 19, March 4, 1944	F. B. Scott S. Lubin	How to Determine Size of Secondary Conductor to Prevent Lamp Flicker (Series of 3 Articles)	Electrical World
Jan. 6, 1945	L. M. Moore	Rural Phase Inverters Cut 'Phone Induction	Electrical World
Aug. 4, 1945	B. O. Watkins M. W. Rothpletz	Peak Demands on Rural Lines Determined by Chart	Electrical World
Aug. 18, 1945	B. O. Watkins M. W. Rothpletz	How to Determine Voltage Drop on Rural Lines	Electrical World
August 1945	J. P. Schaenzer	Engineering Farm Refrigeration	Agricultural Engineering
Oct. 13, 1945	L. M. Moore H. R. Huntley, AT&T	Inductive Coordination of REA Lines and Bell System Lines	Electrical World
Nov. 1945	L. M. Moore	For Tomorrow's Power	Co-op Power
April 1946	J. P. Schaenzer	For Tomorrow's Power	Co-op Power
To Appear in May 1946 Issue	J. P. Schaenzer	Home Uses for Electric Service	Agricultural Engineering
Scheduled to Appear in Two Sections June and July 1946	M. M. Samuels	Planning the Future Power System	Public Utilities Fortnightly

III.

TECHNICAL STANDARDS BULLETINS

A. ISSUED

<u>Date</u>	<u>Bulletin No.</u>	<u>Title</u>	
7/15/41 Revised 2/15/42	1	Determination of Permissible Overloads on Distribution Transformers	S. Lubin
8/4/41 Revised 6/1/43	2	Determination of Size of Service or Secondary Conductor to Prevent Flicker (Published in "Electrical World," October 4, 1941)	S. Lubin
8/3/41	3	A Critical Analysis of Some "Factor" in Electric Utility Practice	M. M. Samuels
7/8/41 Revised 9/15/42	4	Suggestions and Procedure for Making a Sectionalizing Study	B. O. Watkins
4/23/42	5	Use of Series Capacitors for Voltage Regulation (Published in "Electrical World," April 17, 1943 to August 7, 1943)	S. Lubin
7/9/42	6	Use of Shunt Capacitors for Power Factor Improvements	S. Lubin
9/7/42	7	An Analysis of Plant Factors of Some Large Steam Plants (Published in "Public Power," June 1943)	M. M. Samuels
3/27/43	8	Step Voltage Regulator	H. S. Williams M. W. Rothpletz
Revised 6/5/43	9	The Induction Voltage Regulator (Published in "Public Power," December 1943)	N.W. Matthews N. M. Levinson S. Lubin
March 1, 1944	10	Transformer Problems	B. O. Watkins
Dec. 17, 1943	11	Procedure for Preparing Voltage Drop Study (Charts Reprinted in "Electrical World," Aug. 4, 1945, Aug. 18, 1945)	B. O. Watkins M. W. Rothpletz

(III. ~~TECHNICAL~~ STANDARDS BULLETINS)

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B. NOT COMPLETED

<u>Bulletin No.</u>	<u>Title</u>
12	Coordination of Telephone, Telegraph and Radio with Power Systems for Prevention of Interference

IV.

PATENTS

A. AWARDED

Dec. 2, 1941	M. M. Samuels L. M. Moore	Insulator Supporting Bracket for Electrical Transmission Lines	2,264,773
Jan. 20, 1942	N. W. Matthews	Test Electrode	2,270,325
July 7, 1942	M. M. Samuels L. M. Moore	Transmission Line Supports	2,288,746
Nov. 3, 1942	D. E. Basler H. W. Kelley B. O. Watkins	Vector Calculating Board	2,300,401
March 16, 1943	N. W. Matthews	Electric Meter	2,313,758
April 13, 1943	B. O. Watkins	Current Differentiated Tuning Mechanism	2,319,279
Oct. 26, 1943	D. E. Basler H. W. Kelley N. W. Matthews	Insulator Support and Coupling Method	2,332,502
Nov. 20, 1943	J. F. Atkinson	Ground Resistance Meter	2,337,962
Dec. 21, 1943	J. F. Atkinson D. E. Basler	Outage Indicator	2,337,441
Feb. 15, 1944	J. F. Atkinson	Portable Hot Line Carrier Current Coupling Device	2,341,519
Oct. 23, 1945	J. F. Atkinson B. O. Watkins	Permanent Fault Isolator, A Circuit Disconnecting Device	2,387,372; 2,387,373

B. PENDING

N. Whitney Matthews	Plug-In Meter Jack
J. R. Oberholtzer	Hot-Line Clamp
N. Whitney Matthews	Improvements in Electric Circuit Breakers
Bruce O. Watkins	Circuit Breaker
L. A. Thomas	Dead-End Clamp
L. A. Thomas	Hot-Line Clamp